COMPLIANCE TRAINING

California Air Resources Board

Gas Turbines/Power Plants

Course # 272 (This is a 1 1/2-day Course)

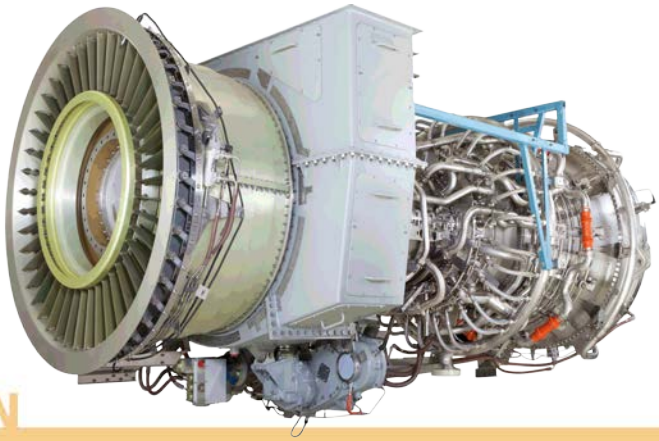
The California Air Resources Board presents a course discussing the use of gas turbines and the fundamentals of operation of modern turbines with emphasis on state-of-the-art controls to achieve some of the lowest emission concentrations for this source category. With an increase in demand of the electric utility industry, stationary gas turbines have become more popular in recent years as combined-cycle power plants, peaking power plants and cogeneration facilities. The course also discusses gas turbine terminology, gas turbine theory and operations, aero-derivative engines like LM6000 and LMS100 vs frame engines like 7FA, combined cycles with HRSG units, duct burners, steam turbines, dry air cooled condensers & power generation. This is followed by a detailed discussion on emissions and control techniques such as Dry Low-NOx combustors with staged combustion, water and steam injection followed by SCR & CO catalysts and its control efficiencies & operational parameters. Applicable federal & local BACT regulations, permitting requirements, and agency inspection procedures, efficiencies & safety concerns are thoroughly discussed. The class involves several interactive exercises involving turbines and power generation. NOx sub 2ppm technological feasibility and sampling uncertainties to achieve these low emission standards will also be discussed.

Hard Hat, Safety Shoes, Hearing Protection & Glasses required for field trip to a power plant.

You are required to provide your own transportation for the field trip.

Please register online at:
arb.ca.gov/training

Click the Registration button.



DATE /TIME / LOCATION

January 25 - 26, 2017

January 25 – Classroom (1:30 PM – 5:00 PM)

January 26 – Classroom (8:30 AM – 12 Noon)

January 26 – Field trip (1:30 PM – 5:00 PM)

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